

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element, which are formed in a pixel,

wherein a threshold voltage of the first transistor is higher than a threshold voltage of the second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein each polarity of the first transistor and the second transistor is p-type,

wherein the light emitting element, the first transistor and the second transistor are all connected in series,

wherein one of a source region and a drain region of the first transistor is connected to the light emitting element, and

wherein the other one of the source region and the drain region of the first transistor is connected to one of a source region and a drain region of the second transistor, and

~~wherein a semiconductor layer of the first transistor continues to a semiconductor layer of the second transistor~~

wherein the first transistor and the second transistor share a same semiconductor layer.

2. (Withdrawn) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element, which are formed in a pixel,

wherein a threshold voltage of the first transistor is lower than a threshold voltage of the second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein each polarity of the first transistor and the second transistor is n-type, and

wherein the light emitting element, the first transistor and the second transistor are all connected in series.

3. (Withdrawn) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element, which are formed in a pixel,

wherein the first transistor is normally-on,

wherein the second transistor is normally-off,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity, and

wherein the light emitting element, the first transistor and the second transistor are all connected in series.

4. (Withdrawn) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element and a third transistor for controlling input of a video signal, which are formed in a pixel,

wherein the first transistor is normally-on,

wherein the second transistor is normally-off,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the third transistor, the first transistor, and the second transistor are connected so that a video signal which is inputted by turning ON the third transistor is given to gate electrodes of the first transistor and the second transistor,

wherein the first transistor and the second transistor have the same polarity, and

wherein the light emitting element, the first transistor and the second transistor are all connected in series.

5. (Withdrawn) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element and a third transistor for controlling input of a video signal and a fourth transistor for controlling supply of power supply potential, which are formed in a pixel,

wherein the first transistor is normally-on,

wherein the second transistor is normally-off,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the third transistor, the first transistor, and the second transistor are connected so that a video signal which is inputted by turning ON the third transistor is given to gate electrodes of the first transistor and the second transistor,

wherein the fourth transistor, the first transistor, and the second transistor are connected so that the power supply potential is given to gate electrodes of the first transistor and the second transistor by turning ON the fourth transistor,

wherein the power supply potential is given to a source of one of the first transistor and the second transistor,

wherein the first transistor and the second transistor have the same polarity, and

wherein the light emitting element, the first transistor and the second transistor are all connected in series.

6. (Previously Presented) The light emitting device according to any one of Claims 1 to 5,

wherein a ratio of the channel length to the channel width of the first transistor is equal to or more than 5.

7. (Currently Amended) A device substrate comprising:

a pixel electrode and a first transistor and a second transistor each for controlling current to be supplied to the pixel electrode, which are formed in a pixel,

wherein a threshold voltage of the first transistor is higher than a threshold of the second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width of the second transistor,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein each polarity of the first transistor and the second transistor is p-type,

wherein the pixel electrode, the first transistor and the second transistor are all connected in series,

wherein one of a source region and a drain region of the first transistor is connected to the light emitting element, and

wherein the other one of the source region and the drain region of the first transistor is connected to one of a source region and a drain region of the second transistor, and

~~wherein a semiconductor layer of the first transistor continues to a semiconductor layer of the second transistor~~

wherein the first transistor and the second transistor share a same semiconductor layer.

8. (Withdrawn) A device substrate comprising:

a pixel electrode and a first transistor and a second transistor each for controlling current to be supplied to the pixel electrode, which are formed in a pixel,

wherein a threshold voltage of the first transistor is lower than a threshold of the second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein each polarity of the first transistor and the second transistor is n-type, and

wherein the pixel electrode, the first transistor and the second transistor are all connected in series.

9. (Withdrawn) A device substrate comprising:

a pixel electrode and a first transistor and a second transistor each for controlling current to be supplied to the pixel electrode, which are formed in a pixel,

wherein the first transistor is normally-on,

wherein the second transistor is normally-off,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity, and

wherein the pixel electrode, the first transistor and the second transistor are all connected in series.

10. (Original) The device substrate according to any one of Claims 7 to 9,
wherein a ratio of the channel length to the channel width of the first transistor is
equal to or more than 5.

11. (Currently Amended) A method for driving a light emitting device,
comprising the step of:

controlling current to be supplied to a light emitting element by a first transistor
and a second transistor,

wherein a threshold voltage of the first transistor is higher than a threshold
voltage of the second transistor,

wherein a channel length of the first transistor is longer than a channel width
thereof,

wherein a channel length of the second transistor is equal to or shorter than a
channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are
connected to each other,

wherein each polarity of the first transistor and the second transistor is p-type,

wherein the light emitting element, the first transistor and the second transistor
are all connected in series,

wherein one of a source region and a drain region of the first transistor is
connected to the light emitting element,

wherein the other one of the source region and the drain region of the first
transistor is connected to one of a source region and a drain region of the second
transistor,

~~wherein a semiconductor layer of the first transistor continues to a semiconductor
layer of the second transistor~~

wherein the first transistor and the second transistor share a same
semiconductor layer, and

wherein the first transistor operates in a saturated region, and the second transistor operates in a linear region.

12. (Withdrawn) A method for driving a light emitting device, comprising the step of:

controlling current to be supplied to a light emitting element by a first transistor and a second transistor,

wherein a threshold of the first transistor is lower than a threshold of the second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein each polarity of the first transistor and the second transistor is n-type,

wherein the light emitting element, the first transistor and the second transistor are all connected in series, and

wherein the first transistor operates in a saturated region, and the second transistor operates in a linear region.

13. (Withdrawn) A method for driving a light emitting device, comprising the step of:

controlling current to be supplied to a light emitting element by a first transistor and a second transistor,

wherein the first transistor is normally-on,

the second transistor is normally-off;

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity,

wherein the light emitting element, the first transistor and the second transistor are all connected in series, and

wherein the first transistor operates in a saturated region, and the second transistor operates in a linear region.

14. (Original) The method for driving the light emitting device according to any one of Claims 11 to 13,

wherein a ratio of the channel length to the channel width of the first transistor is equal to or more than 5.

15. (Withdrawn) A display device having the light emitting device according to any one of Claims 1 to 5.

16. (Withdrawn) A digital still camera having the light emitting device according to any one of Claims 1 to 5.

17. (Withdrawn) A portable information terminal having the light emitting device according to any one of Claims 1 to 5.

18. (Withdrawn) A laptop computer having the light emitting device according to any one of Claims 1 to 5.

19. (Withdrawn) A mobile computer according to any one of Claims 1 to 5, wherein the light emitting device is provided.

20. (Withdrawn) An image reproducing device having the light emitting device according to any one of Claims 1 to 5.

21. (Withdrawn) A goggle type display having the light emitting device according to any one of Claims 1 to 5.

22. (Withdrawn) A video camera having the light emitting device according to any one of Claims 1 to 5.

23. (Currently Amended) A light emitting device comprising:

a light emitting element and a first transistor and a second transistor each for controlling current to be supplied to the light emitting element, which are formed in a pixel,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity,

wherein the light emitting element, the first transistor and the second transistor are all connected in series,

wherein one of a source region and a drain region of the first transistor is connected to the light emitting element, and

wherein the other one of the source region and the drain region of the first transistor is connected to one of a source region and a drain region of the second transistor, and

~~wherein a semiconductor layer of the first transistor continues to a semiconductor layer of the second transistor~~

wherein the first transistor and the second transistor share a same semiconductor layer.

24. (Currently Amended) A device substrate comprising:

a pixel electrode and a first transistor and a second transistor each for controlling current to be supplied to the pixel electrode, which are formed in a pixel,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width of the second transistor,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity,

wherein the pixel electrode, the first transistor and the second transistor are all connected in series,

wherein one of a source region and a drain region of the first transistor is connected to the light emitting element, and

wherein the other one of the source region and the drain region of the first transistor is connected to one of a source region and a drain region of the second transistor, and

~~wherein a semiconductor layer of the first transistor continues to a semiconductor layer of the second transistor~~

wherein the first transistor and the second transistor share a same semiconductor layer.

25. (Currently Amended) A method for driving a light emitting device, comprising the step of:

controlling current to be supplied to a light emitting element by a first transistor and a second transistor,

wherein a channel length of the first transistor is longer than a channel width thereof,

wherein a channel length of the second transistor is equal to or shorter than a channel width thereof,

wherein gate electrodes of the first transistor and the second transistor are connected to each other,

wherein the first transistor and the second transistor have the same polarity,

wherein the light emitting element, the first transistor and the second transistor are all connected in series,

wherein one of a source region and a drain region of the first transistor is connected to the light emitting element, and

wherein the other one of the source region and the drain region of the first transistor is connected to one of a source region and a drain region of the second transistor,

~~wherein a semiconductor layer of the first transistor continues to a semiconductor layer of the second transistor~~

wherein the first transistor and the second transistor share a same semiconductor layer, and

wherein the first transistor operates in a saturated region, and the second transistor operates in a linear region.

26. (Previously Presented) The light emitting device according to claim 1, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.

27. (Previously Presented) The device substrate according to claim 7, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.

28. (Previously Presented) The method for driving the light emitting device according to claim 11, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.

29. (Previously Presented) The light emitting device according to claim 23, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.

30. (Previously Presented) The device substrate according to claim 24, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.

31. (Previously Presented) The method for driving the light emitting device according to claim 25, further comprising a third transistor,

wherein a first electrode of the third transistor is electrically connected to a signal line and a second electrode of the third transistor is electrically connected to the gate electrodes of the first transistor and the second transistor.